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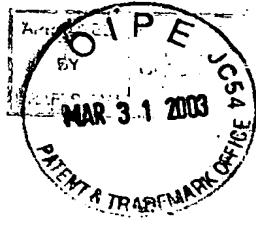
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- #18

Applicant: Vanitha Ramakrishnan and David R. Phillips
Title: TRANSGENIC ANIMALS HAVING A MODIFIED GLYCOPROTEIN V GENE
Attorney/Agent: Tracy M. Sioussat
Docket No.: MPI98-149PIUSRCEM

50	AGAATTCAATTG	GCCTTATTAA	TGTTGAGCAA	AAGAGATGGC
100	CTCATCAGGT	AAGATAACCTC	CCAAGACATG	TTGGGAAACCT
150	ACACGTTGGAGG	AGGTGAGAAC	CAATTGCCTA	AAGTTTTCTG
200	GTTGAGGCACT	GCCACATGCA	CCCACATACT	ACACCCACAA
250	CTGCTATTTC	CATGAAACT	AACCACACTA	AATGAGTTAG
300	GGACTTTAA	TGGGAAACT	TAGGCCCTCT	CCTGCACAGG
350	CTAGGACTC	CTATGGACTC	TGAAAGTTG	GTGGCCATG
400	CCCTATGGAG	ATAGTTT	TCTTGACTTT	TAATGACAGC
450	CTTGAGGAT	CAAGATACT	TCCCTCTTCC	TTATCTGGTA
500	GGGGCCAAAGTCAC	GCAAGGCCTT	CAGTCAGTCC	TCTCTGAAGT
550	ACTGCTTCA	ATATTCTAA	ATTAGTGTAT	TCATTAAACAC
600	TATAGGGCA	GAAGGAGACC	TGGTACAAGA	AAACAGTACAA
650	GGGAAACAGA	GTAAACACTAGT	ATTACTGTGT	GCTTCCTGGG
700	CCCAGAGTAG	TTTATTAAAG	CAGCTTGGTG	TATAAGCAA
750	CGAGTAGCTCA	GTGTGAGTCA	GAAAACATC	TTCAAATGCT
800	ACTTTTACTT	AACCTCATGT	ACACTGGAGC	GCTTCCTGAA
850	TTAAACTCAATG	TTCAAGAAAG	TTCAGAAAG	CATGGCATAAA
900	CGAGTAGCTCA	TTATTAAAT	GCTCCGGCC	GGGAGTTACA
950	ACTCTTATGTGA	CACTTAAATT	GGGTGGTGGT	ACTTGAAA
1000	CTCTGCACTCGT	GTTACTGTAA	GGCTTGGTGC	TATGTAAGAA
1050	AGCAATGGGC	ATTATCACCT	ACTTGGTTAA	CTGACTGTTG
1100	AAACGGGTGTA	ATGAGTTGTTG	TCTCTGTTAA	GTCACTGACA
1150	TTATTGAATCTA	GTGGGAAGTGG	AGACCGTAGC	CAGCCAGTCC
1200	ACGGGATAAAAGC	TCCCTGCTTA	AATTAAATT	AATTAAATT
1250	CGAGGAGGCGT	TGCTTTCTAT	TCTCTGAAA	GCTTGAAAAT
1300	CCTGTTCTGTA	CGATTTTAAG	GTATTCTGTA	GCCCCAAATGT
1350	CAATGCTCTA	AACAGAACCG	GGGAGATGGC	TGACTGGATA
1400	CCCTGTAAGAC	TGATCTACTC	TCCAATACCC	ACATATGCTG
	TTAATCAGGC	TTTGTAAAGAT	AGAGGAAGAC	AAAATGGGAA
	CAAGGGCGTG	AGAGTGGCTGG	CCCAAAAACCT	GTGCTTGCAG
	AGGGCTCCAG	GATATGCTCT	GAGCCCTTGT	TTTGCTCTTG
	CATTTCAGAC			

FIG. IA

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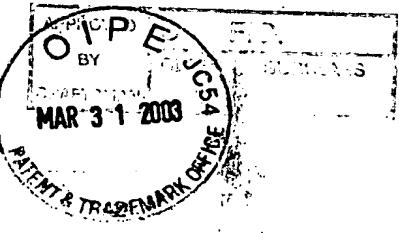


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Attorney/Agent: Tracy M. Sioussat
Docket No.: MPI98-149P1USRCEM

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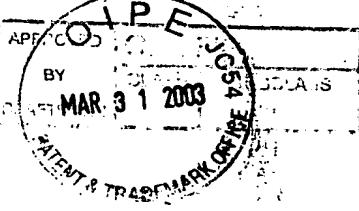
FIG. 1C

GGGGCTTGCA	GACCGCTGGG	CTGACCGGGA	ACCCGGGG	GAGGGGGCTC	2400
CGGGGGGG	TGTCCAGGG	CCTACGGGAG	CTGGGGGTGCA	TGGGGCTGGC	2450
CACCAACGCC	CTGGGGGAGC	TGGGGGACGA	CGGGCTGGGC	GGCCTGGGG	2500
ACCTGGCCA	GGTGTGGCTG	CGGCCACAAAC	GGCTGGGGG	CTGGCCCCGG	2550
ACGCTCTTC	GCAACCTCAG	CAGGCCTCGAG	AGCGTGCAGC	TAGAGCACAA	2600
CCAGCTGGAG	ACGCTGCCAG	GAGACGTGTT	CGGGGCTCTG	CCCCAGCTGA	2650
CCCAGGGCTT	GCTGGGTCAAC	AACCCCTGGC	TCTGGGACTG	TGGCCCTGTGG	2700
CCCTTCTCC	AGTGGCTGGC	GCATCACCG	GACATCCCTG	GGCGAGACGA	2750
GGCCCCGGAG	TGCCGGTGGCC	CGGAGCCACG	CGCCAGGCCCTG	TCGTTCTGGG	2800
AGCTGCTGCA	GGGTGACCCG	TGGTGGCCCG	ATCCCTCGCAG	CCTGGCTCTC	2850
GACCCTCCAA	CCGAAAATGC	TCTGGAAAGCC	CCGGTTCCGT	CCTGGCTGCC	2900
TAACAGCTGG	CAGTCCCAGA	CGTGGGGCA	GCTGGGGCC	AGGGGTGAAA	2950
GTCCAATAA	CAGGCTCTAC	TGGGGCTTT	ATATTCTGCT	TCTAGTAGCC	3000
CAGGCCATCA	TAGCCGGTT	CATCGTGT	GCATGATTAA	AAATCGGCCA	3050
GCTGTTTCCG	ACATTAATCA	GAGAGAACCT	CTTGTGAGAG	GCAATGGGAA	3100
AATCGTG					
(stop)					
TAA	CTAATGAAAC	TGACCAAGGC	ATTGTGGACG	GGGGCCCCAAG	3150
GAGAATGCAG	TCAGGATGCT	GGCGTGCCAT	TACACTATTT	CCCAGGGCTT	3200
TTCTCCTCTC	CCGTGCTCTT	AGTGTCTTT	CTTCTCCCT	CTCTTTCAGAA	3250
GTAGCTTTG	TAATCGCTA	CTGCTTTCTA	GCCTGGGCTCG	GTTCACCTCC	3300
TCTGCTGT	GTTCAAGGG	GGCTGAGGGT	GGGGGTTCGA	CGGGACCTGG	3350
CTCATCAGGT	CCAACTGTGC	AGGGCTGGGT	GCCTAGTGGA	GAGAGGAGCC	3400
CTTCTTGGT	TTCTGAATT	GAGGACACAT	CTTGGCCAGTG	GGCAAGACCT	3450
CTCCGGGAC	CAGCAAGGGT	TGAGTAACAT	TTGCTGAAGG	AACACCGGCT	3500
TAAAACGAA	CCTAGGTCCA	AGAGATGAAG	GCTCTTCCA	AAATAAAGGT	3550
GGAGGTGTTCT	TGTCCCTTA	CCTGAAAGGA	GAATT		3586

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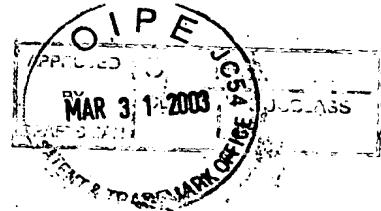
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MLRSALLSAV LALLRAQPFPP CPKTCKCVVR DAAQCSGGSV AHIAELGLPT
NLTHILLFRM DQGIIIRNHSF SGMTVILQRLM LSDSHI SAID PGTFNNDLVKL
KTLRLTRNKI SRLPRAILDK MVILLEQLFLD HNALRDLDQN LFQQLRNLQE
LGLNNQNQLSF LPANLFSSLR ELKLLDLSRN NLTTHLPKGLL GAQVKLEKLL
LYSNQOLTSVD SGLLSNLGAL TEIRLIERNH RSVAPGAFDR LGNLLSSLLS
GNLLESLPPA LFLHVSSVSR LTTFENPLEE LPDVLFGEWA GLRELWLNGT
HLSTLPAAAF RNLSGLQTIG LTRNPRLSAL PRGVFQGLRE LRVVLALHTNA
LAEIRDALR GLGHLRQVSL RHNRLRRALPR TLFRNLSSLE SVQLEHNQLE
TLPQDVFAAL PQLTQVLLGH NPWLCDCCGLW PFLQWLRRHP DILGRDEPPQ
CRGPEPRASL SFWELLQGDP WCPDPRSULP DPPTENALEA PVPWSWIPNSW
QSQTWAQLVA RGESPNNRLY WGLYILLVA QAIIAAFTIVF AMIKIGQLFR
TLIREKLLE AMGKSC

FIG. 2

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FIG. 3A

5' - TGATCGGAAC	TGAAAGACCT	CCCGCGATAAC	CTGGCAGAGG	CAGTGGCTCT	50
TRE					
TCCCTGTGGT	CCAGGGCTGA	CTGACTTTGA	AGGTAATTTC	AGTCAACCCA	GCCTTTACTG
GGCTCTGACT	GCATTAGGCT	GCATCAAAGG	GGATTGGATC	CCATGATTCT	TTATATCTTC
TGACATTAAG	CCTTGTCAAG	CTATAGGTGT	TACAAATATC	TTTAGTTTGT	GGTTTATCTT
TTCCCTTTT	TTATGGTGTG	TTGAAGGATA	GAAGTCTTAA	TGCAGACAGC	ATTATCAGTG
TGTTCAAAAG	ACAGCTAGAC	ACGTTTGCC	TATAGACAAA	TGGGCAAAAG	GAAACCCAGC
TTTCTAAAT	GAAGCACAAG	TGGGCCTTAA	TTATGTGAAA	AGGTGTTCAA	GTTCATCATT
AAACAGGGAA	AGGAAAAGTT	AAAACCATGC	TGAGATATCT	TTCATAGAAA	TGGCAAAAG
Ets-1		Ets-1			
CAGGAAGCTGC	CACGTGTGGG	CAAGAGAGGAA	GCACAGGAAC	TCTCACAAAT	GGCAGGTGTC
ATCGTAGACC	AACACAACCA	CTTGGAGAG	CAGTTGACT	TTCCCCAGTT	AAACTGAACA
TGTGAGCGGC	CGGGCGTGGT	GGCTCATGCC	TGTAATCCCA	GCAGTTGGG	AGGCCGAGGC
GGGCAGATTG	CCTGAGCTCA	GGAGTTCAAG	ACCAGCCAGG	GCAACACGGT	AAAAACCCGT
CTCTACTAAA	ATACAAAAAA	TTAGCTGGGC	GTGATGGTGT	GTGCCTGTAA	TCCAGCTAC
TTGTGAGGCC	GAGGCAGGAG	AATTGCTTGA	ACCAGGGAGC	AGGAGGTTGC	AGTGAGCCGA
GATCGCACCA	CTGCACCCCA	GCCTGGCGAC	AGAGTCCCCC	TCCCCCACCA	AAAAAACAAAC
Ets-1					
AACTGAGGCAT	CCTGCAACCT	AGCAATGCCA	TTGTTGAAACA	AGTTCAAAGA	TGTTCTTAGC
CTTATTAGTC	CCAAAAGGAA	GAAAAAAATG	GAGGATTGAA	GAATGTTCTT	AGCTTTATTG
CTAAGCGGAG	AAAGAAAAAC	AACACATACC	AAAAAAA	AAAAAAA	AAAAAAACAA
AAAACCTGGG	TGGGAAATTA	GGGCCATGTG	GCATGAAAG	GAAGACCCAG	GGGAAGTGTG
SpI			Ets-1		
GCCCCATCTAG	GGGTGTGGGT	ACTGCAGTGA	TCCAGCTGTA	TCACTGAACT	TCCGTGGCAT
TATA					
CATAGAGTAA	TATGTGCCA	TTTATGGAAA	AACTCTCCCC	ACTGCTCTTG	GCTTGTACAG
TATA			GATA		
TAGGAATCAG	GTATATATG	GTCTCTCGGT	TTGAAGATAT	TTGTCATTAA	AAACCAGAAC
GATA				Ets-1	
AAGGGCTCTG	AGATAGGGTC	CTTTCCTGAC	CTACTCTGGT	AAACTCTTTA	TCCTCAGGAT
GAAGGATAAC	CACCCCTCTTC	CTGTGGAAAG	TGTCAATCA	CATGCAGAGC	TCTAAGTCTT
▼					
TCAGTTACTT	TGGAGTGCAG	AACCATTCA	Ggttaaggcc	aatttttaa	acatttagat
ggaaattag	ggggctcttt	agtcgtgt	tgcatgagaa	gtttatgc	acgagaagca
atttatgtaa	attttcgttt	aggaaacatt	gttttggtag	tttagtagta	tgggtgtat
ttcccaagaa	atccatgtcc	gtgagttta	ctttagttt	gcgccttag	aaatagtagc
tcttatgtt	tatggctaa	tcagaaatac	ttcccttcaaa	ttctatgtga	ccctatgtat
actgttgatc	ctttctgtgc	ctctgtgcct	tcatccttga	atcggggata	atatacttac
ctccctaaagg	tatgtttaaa	atiaaaatgc	tgtatataaa	ataaaagatc	gagaaacatg
catggcgaa	atgtatgttt	atatttat	gttttttgtt	gtctgttatt	gaagggtgtt
gctgttttgg	gggtgttcctt	taatggat	acttggatc	gtggaaatag	catgtttgtg
agccaaatgg	tcatgtggtg	gtggcgtgc	actttgtgt	tccttccttg	actgtttgggt
atagccaaatg	cgggtgttgt	tatggatgtca	agagcagagc	cgttttcaco	atggacatig
cttttgtatgt	tctgtgttgt	tggatgttgaa	aatgattttt	ttaattctt	atgtaaagac
tttaaaggat	tggctatgtc	gtatgttgt	ttctctgtaa	tctcatgtt	taacatgtaa
gtggaaatgc	aataaaggca	aaatgtgggg	ccatcgatgt	tgtatgtgt	gtcttttccac
cacgtgggaa	aatctgttgt	cttggaaatgg	gatggatgtg	gaattctggc	gaaaatgttg
tgcctctgca	caatgtgcag	gtatccatggg	ttcgtatcag	gcgcgtacgc	tcctgtgtgt
		Met			
tgaccacact	cccaacgggttg	cttttttagA	CATGCTGAGG	GGGACTCTAC	TGTGCCCGGT
					2450

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FIG. 3B

GCTCGGGCTT	CTGCGCGCCC	AGCCCTTCCC	CTGTCCGCCA	GCTTCCAAGT	GTGTCTTCCG	2510
GGACGCCCGC	CAGTGCTCG	GGGGCGACGT	GGCGCGCATC	TCCGCGCTGG	GCCTGCCAC	2570
CAACCTCACG	CACATCCTGC	TCTTCGGAAT	GGGCGCGGCC	GTCTGCAGA	GCCAGAGCTT	2630
CAGCGGCATG	ACCGTCTGC	AGCCGCTCAT	GATCTCCGAC	AGCCACATT	CCGCGCTTGC	2690
CCCCGGCACC	TTCACTGACC	TGATAAAAAT	AAAAACCCCTG	AGGCTGTGCG	GCAACAAAAT	2750
CACGCATCTT	CCAGGTGCGC	TGCTGGATAA	GATGGTGCTC	CTGGAGCAGT	TGTTTTGGA	2810
CCACAAATGCC	CTAAGGGCA	TTGACCAAAA	CATTTTCAG	AAACTGGTTA	ACCTGCAGGA	2870
GCTCGCTCTG	AACCAGAACATC	AGCTCGATT	CCTTCCTCCC	AGTCTCTTCA	CGAATCTGGA	2930
GAACCTGAAG	TTGTTGGATT	TATCGGGAAA	CAACCTGACC	CACCTGCCCA	AGGGGTTGCT	2990
TGGAGCACAG	GCTAAAGCTCG	AGAGACTTCT	GCTCCACTCG	AACCGCCTTG	TGTCTCTGGA	3050
TTCGGGGCTG	TTGAACAGCC	TGGGCGCCCT	GACGGAGCTG	CAGTTCCACC	GAAATCACAT	3110
CCGTTCCATC	GCACCCGGGG	CCTTCGACCCG	GCTCCCAAAC	CTCAGTTCTT	TGACGCTTTC	3170
GAGAAACAC	CTTGCCTTTC	TCCCCCTCTGC	GCTCTTCTT	CATTGCGACA	ATCTGACTCT	3230
GTTGACTCTG	TTCGAGAAC	CGCTGGCAGA	GCTCCCGGGG	GTGCTCTTCG	GGGAGATGGG	3290
GGGCCTGCG	GAGCTGTGGC	TGAAACCCGAC	CCAGCTGCGC	ACCCTGCCCG	CCGCGGCCCT	3350
CCGCAACCTG	AGCCGCGCTGC	GGTACTTATTG	GGTGAACCTCG	AGCCCGCGGC	TGAGCGCGCT	3410
TCCGCAAGGC	GCCTTCAGG	GCCTGGCGA	GCTCCAGGTG	CTCGCCCTGC	ACTCCAACGG	3470
CCTGACCGCC	CTCCCCGACG	GCTTGCCTGC	CGGCCTCGGC	AAGCTGCGCC	AGGTGTCCCT	3530
GCGCCGCAAC	AGGCTGCCG	CCCTGGCCCCG	TGCCCCTTTC	CGCAATCTCA	GCAGCCTGGAA	3590
GAGCGTCCAG	CTCGACACAA	ACCAGCTGGA	GACCCCTGCCT	GGCACGCTGT	TTGGGGCTCT	3650
GCCCCGGCTG	ACGGAGGTCC	TGTTGGGGCA	CAACTCCTGG	CGCTGCGACT	GTGGCCTGGG	3710
GCCCCTTCTG	GGGTGGCTGC	GGCAGCACCT	AGGCTCTCGT	GGCGGGGAAG	AGCCCCCAGG	3770
GTGCGCAGGC	CTTGGGGCC	ACGCCGGCCT	GCCGCTCTGG	GCCCTGCCGG	GGGGTGAACCC	3830
CGAGTGGCCG	GGCCCCCGGG	GCCCCGCTCC	CGGCCCCGCT	GCCCCACACCT	CCTCGGAAGD	3890
CCCTGTCCAC	CCAGCCTTGG	CTCCCAACAG	CTCAGAACCC	TGGGTGTGGG	CCCAGCCGGT	3950
GACCACGGGC	AAAGGTCAAG	ATCATAGTCC	GTTCCTGGGG	TTTATTTTC	TGCTTTTACG	4010
TGTCAGGCC	ATGATCACCG	TGATCATCGT	GTTCGCTATG	ATTAAAATTC	GCCAACCTTT	4070
STOP						
TCGAAAATT	ATCAGAGAGA	GAGCCCTTGG	GTAAAACCAAT	GGAAAATCT	TCTAATTACT	4130
TAGAACCTGA	CCAGATGTGG	CTCGGAGGGG	AATCCAGACCC	CGCTGCTGTC	TTGCTCTCCC	4190
TCCCCCTCCC	ACTCCTCTC	TCTTCCTCT	CTTCTCTCTC	ACTGCCACGC	CTTCCTTTCC	4250
CTCCTCTCTC	CCCTCTCCGC	TCTGTGCTCT	TCATTCTCAC	GGGCCCGCAA	CCCCCTCCTCT	4310
CTCTGTCCCC	CCCCGTCTCT	GGAAAATGAG	CTTGACGTTT	GTAAAATGTC	TTGCGCTGCC	4370
TTCCCAGCTC	CACGGGGTGT	GGCGTGAACAC	TGCCCCGGGG	CTGGACTGTG	TTGGACCCAT	4430
CCTTGGCCCG	CTGTGCCCTGG	CTTGGCTCTCT	GGTGGAGAGA	GGGACCTCTT	CAGTGTCTAC	4490
TGAGTAAGGG	GACAGCTCCA	GGCCGGGGCT	GTCTCTGCA	CAGAGTAAGC	CGGTAAATGT	4550
TTGTCAAATC	AATGCGTGG	TAAAGGAACA	CATGCCATCC	AAGTGTATGAT	GGCTTTTCTC	4610
GGAGGGAAAG	GATAGGCTGT	TGCTCTATCT	AATTTTTGT	TTTTGTTTTT	GGACAGTCTA	4670
GCTCTGTGGC	CCAGGCTGGC	GTGCACTGGG	CCGTCTCAGT	TCACTGCGAC	CTCCGCCCTC	4730
CAGGTTCAAG	TGATTCAT	GGCTCAGCGT	TCTGAGTAGC	TGGGATTAGA	GGCGTGTGCC	4790
ACTACACCCG	GCTAATT	GTACTTTTA	AAGTAGAGAC	GGGCTTTGCC	ATATGGCCT	4850
GGCTGATCTC	AAACTCC	TCTGAAC	CTGGCCACAA	GTGATCTGCC	CCCTTAGCC	4910
TCCCCAAAGTG	CTGGGATTAC	AGCCGCAAGC	CACTACACCT	GCCCTCTTCA	TCCAATT	4970
TTTGAGAACT	AGAGCTCTG	CCATTTTTC	CCTTGCTCCA	TTTTCTCAC	TTTATGTCTC	5030
TCTGACCTAT	GGGCTACTTG	GGAGAGCACT	GGACTCCATT	CATGCATGAG	CATTTTCAGG	5090
ATAAGCGACT	TCTGTAGGC	TGAGAGAGGA	AGAAAACACG	GAGCCTTCCC	TCCAGGTGCC	5150
CACTGTAGGT	CCAGCGTGT	TCCTGAGCCT	CCTGTGACTT	TCCACTTGCT	TTACATCCAT	5210
GCAACATGTC	ATTTGAAAC	TCGATTGATT	TGCAATTCT	GGAACCTCTG	CACTCATTT	5270
CACAAGCATT	TATGGAGCAG	TTAACATGTG	ACTGGTATT	ATGAATATAA	TGATAAGCTT	5330

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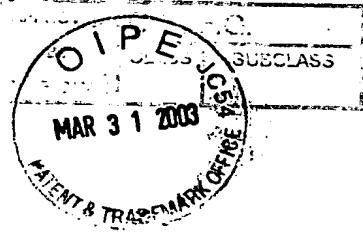


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FIG. 3C

GATTCTAGTT	CAGCTCCTGT	CACAGTCTCA	TTTGTCTTC	CAACTGAAAG	CCGTAACACC	5390
TTTGTGCTT	TAATTGAATG	TCTGTGCTTA	TGAGAGGCAG	TGGTTAAAC	ATTTCTGGC	5450
GAGTTGACAA	CTGTGGGTTG	AAATCCCAGC	TCTACCACTT	ACTAACTGCA	TGGGACTTTG	5510
GGTAAGACAC	CTGCTTACAT	TCTCTAAGCC	TTCGTTTCT	GAACCTTAAA	ACAGGATAAC	5570
ATAGTACCTG	CTTCATAGAG	TTTTGTGAGA	ATAAAGGCA	<u>ATAAAGGATA</u>	TAATGACTTA	5630
CCCCAGCGGC	CTGCAGACAA	TACATGTTAA	TGAATGTTAG	CTATTATTAC	TAAAGATGAG	5690
CAATTATTAT	TGGCATCATG	ATTTCTAAAG	AAGAGCTTG	AGTTGGTATT	TTTCTCTGTC	5750
TATAAGGGTA	AGTCCGAACT	TTCTCATACT	GGAGGTTACA	TTCACATCAG	TCTGCTTCC	5810
CCTGCGGATG	GCCTCAGCCC	TGGGTGGCCA	GGCTCTGTG	TCACAGTCGA	GAGCAATGGA	5870
TCCTCAACA	CCACCAAGGTG	GATGTTGGAGC	AGGAGAGCTG	GATGTTGGCA	TTTGTGCTG	5930
GGTTCTGCAG	TTGGGAGTTG	CTTCTGGGT	TCTCCATTGG	TCTACTTGTG	TAGTCCCATA	5990
CCAGACTCAC	GGTCTCCATT	ATTGGAGCTT	TAATAATTT	GGTATAGGG	TCATCTCTCC	6050
ACCTTGTTT	TCTTCTATTG	TTGGTTCTT	GCAATTCTAT	GAATATTTC	GGGTCAGCAT	6110
GTCAACTCCA	TTGAAAAAAC	CTGCTGGGAT	TTAATAGAA	CTTACAGCTC	ACGGCTGTA	6170
TCCCAGCACT	TTGGGAGGCT	GAGGTGGGTG	GATCACAGGT	CAGGAGTTG	AGAACAGCTG	6230
GCCAAGATGG	TGAAACCCCG	TCTCTACTAA	AAATACAAAA	ATTAGCTGGG	TGCGGTGGCA	6290
GGTGCCTGTA	GTCCCAGCTA	CTTGGGACAC	CGAGGCAGGA	GAATCACTG	AAACCCGGGAG	6350
GCGGAGGTTG	CAGTGAGCCG	AGATCGTGCC	ACTGCACTCT	AGCCTGGGCG	ACAGAGCGAG	6410
ACTCCATCTC	AAAAAAAG	AAAAGAAAA	TTGCACTAAA	TTTAAACTA	ATTTGGGAA	6470
GAATCTGTAT	TTTACAATA	CCTAGTGTTC	TTGCCAGTAA	GCATGGTCA	TCTTCCATT	6530
TATTTACGTC	ATTTAAATC	TTTCAGTGAT	GTTTAGAAT	TTTTTTATA	AAAACCTTCA	6590
CTATAAGAAC	AGAAAACCAA	ACACCGCATG	TTCTCACTCA	TAGGTGGGAA	TTGAAACAATG	6650
AGAACACTG	GACACAGGGC	GGGGAACGTC	ACACGGCTGG	ACTGTTGGG	GGGTGGCTGG	6710
GAGAGGGATA	GTGTTAGGAG	AAATACCTAA	TGTAATGAC	GAGTTAATGG	TGCAGCCAAC	6770
CAACCTGGCA	CATGTATTCA	TATGTAACAA	ACCTGCACGT	TGTGCACATG	TACCTAGAA	6830
CTTAAAGTAT	ATTAAAAAAA	GAAACCTTGC	CACTGATTT	GTAGATTAA	TTCTTAGGTA	6890
TCCTTCTCT	TTTTGATT	GTCAATTGCTA	TTGTAGATGG	CATCTTTTA	AAAAGTTATA	6950
TTTTCTAAAG	<u>CAAAAATAA</u>	AAAAGTTGT	ATTCTAATT	TTTATTACCA	ATATATAAGA	7010
ATGTAATTG	TTTTACATA	ATTATCTTAT	GTCTAGTAAT	AATTCTGATA	ATTTGCTTCT	7070
TCCTTAAAT	ACCTTACACC	CATTATTGAT	TTATTTTCT	GTTTAAAT	ATCTTCTG	7130
ACTGGCTAAA	ACCTCCACTA	TAATGTTGAG	CAGAACACTG	AGGCATCTT	AGAACTATCT	7190
TGGTTGCAAA	GGCTAGGTCT	CTAATGTTTC	ATCAATAAT	GTGATGTTTC	TAGTCTGAGT	7250
TTGCTAAGTA	TATTTAAAAA	TAATCACTAA	AGTTAGATT	TATCCATT	TATCTTAACT	7310
ATTGAGATGC	TCATATCATT	TTTCTTCTTC	AATGTTAA	AATGGTGAAT	AAAATTATAG	7370
ATTTGGAAA	AGTAAATTCA	TTCTTGCATT	CCCGAAGTAA	ACCAAGCCAT	GCTATGTGTA	7430
TTTAAATAT	ATTGCTGAAT	TC-3				7452

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 Docket No.: MPI98-149P1USRCEM

FIG. 4

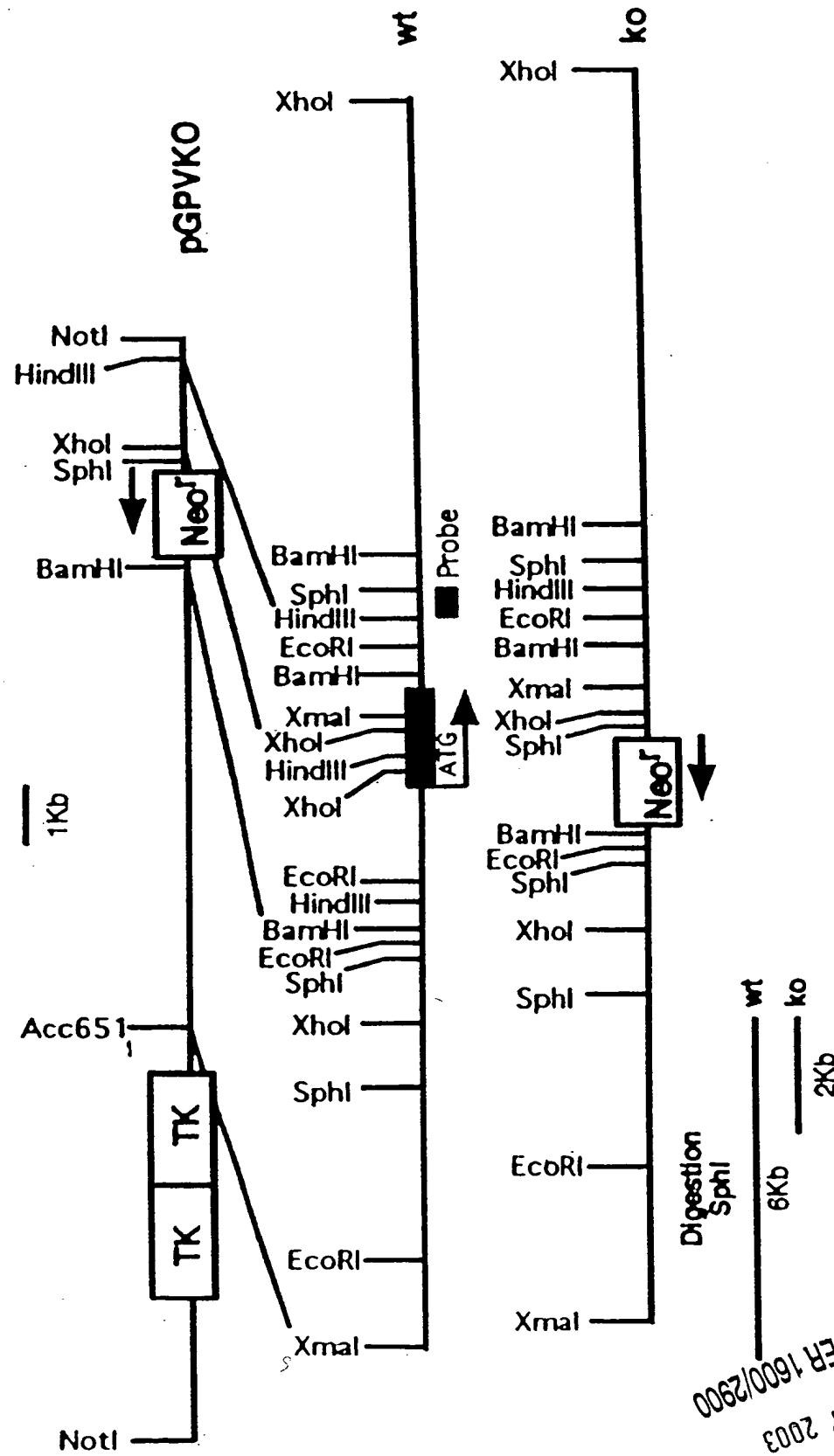
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 31 D A A Q C S G G D O V A R I S A L G E P T N L T H I L L F G M
 61 G R G V L Q S Q S F S G M T V L Q R L N I S D S H I S A V A
 91 P G T F S D L I K L K T L R L S R N K I T H L P G A L L D K
 121 H V L L E O L F L D H N A L R G I D Q N M F Q K L V N L Q E
 151 L A L N Q N Q L D F L P A S L F T N L E N L K L L D L S G N
 181 N L T H L P K G L L G A Q A K L E R L L L H S N R L V S L D
 211 S G L L N S L G A L T E L Q F H R N H I R S I A P G A F D R
 241 L P N L S S L T L S R N H L A F L P S A L F L H S H N L T L
 271 L T L F E N P L A E L P G V L F G E M G G L Q E L W L N R T
 301 Q L R T L P A A A F R N L S R L R Y L G V T L S P R L S A L
 331 P Q G A F Q G L G E L Q V L A L H S N G L T A L P O G L L R
 361 G L G K L R Q V S L R R N R L R A L P R A L F R N L S S L E
 391 S V Q L D H N Q L E T L P G D V F G A L P R L T E V L L G H
 421 H S W R C D C G L G P F L G W L R Q H L G L V G G E E P P R
 451 C A G P G A H A G L P L W A L P G G D A E C P G P R G P P P
 481 R P A A D S S S E A P V H P A L A P N S S E P W V W A Q P V
 511 T T G K G Q D H S P F W G F Y F L L A V Q A M I T V
 541 F A M I K I G Q L F R K L I R E R A L G 560

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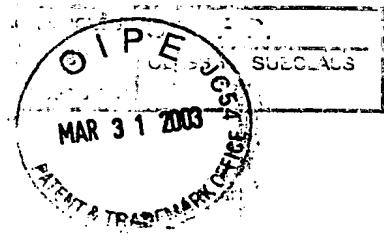


Applicant: Vanitha Ramakrishnan and David R. Phillips
 Title: TRANSGENIC ANIMALS HAVING A MODIFIED
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 Attorney/Agent: Tracy M. Sioussat
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FIG. 5

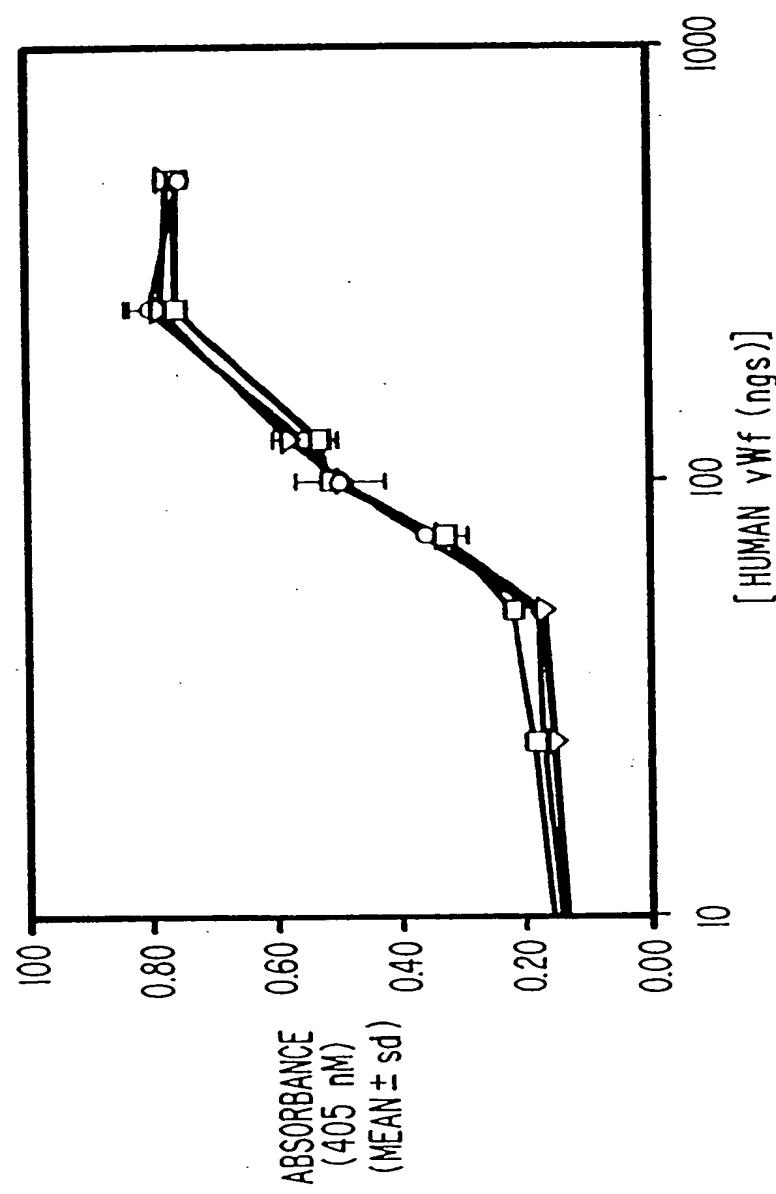


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FIG. 6

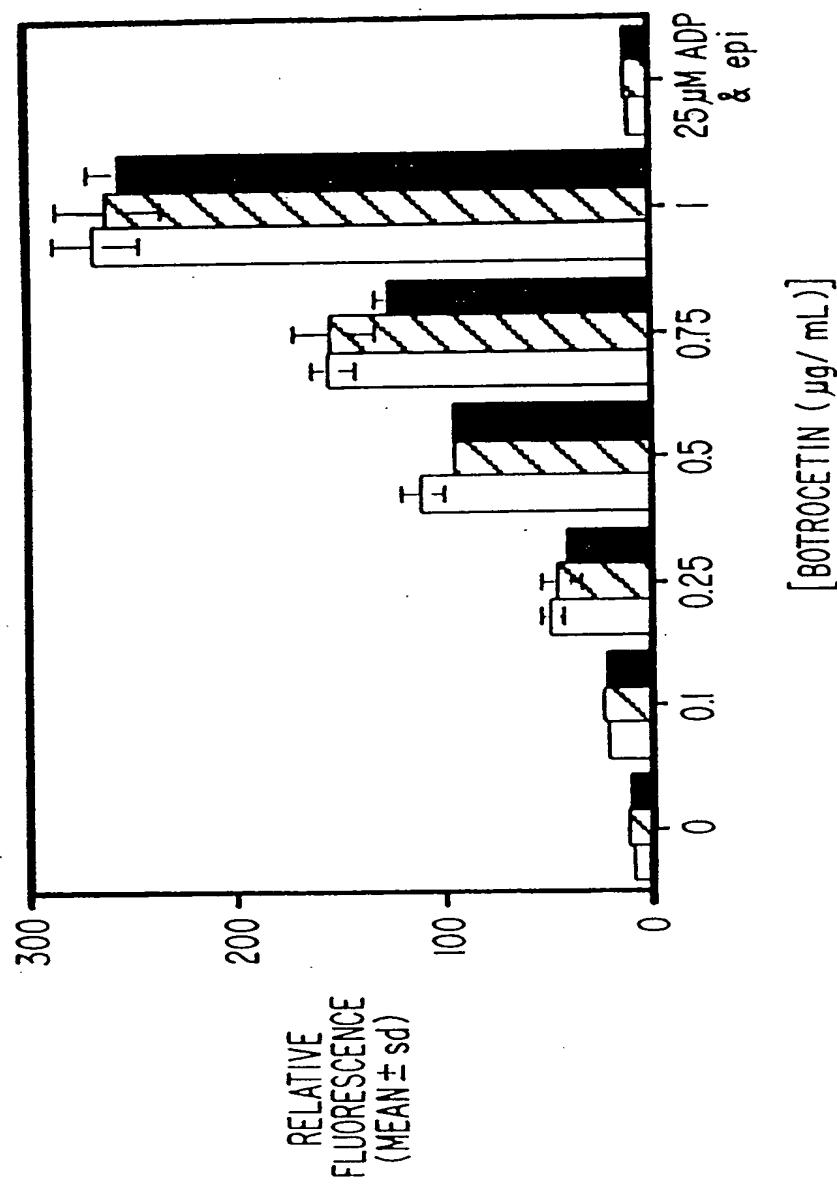


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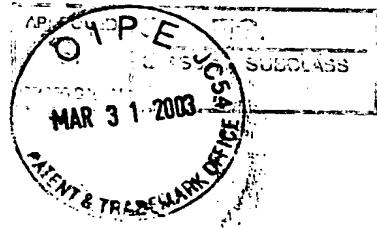


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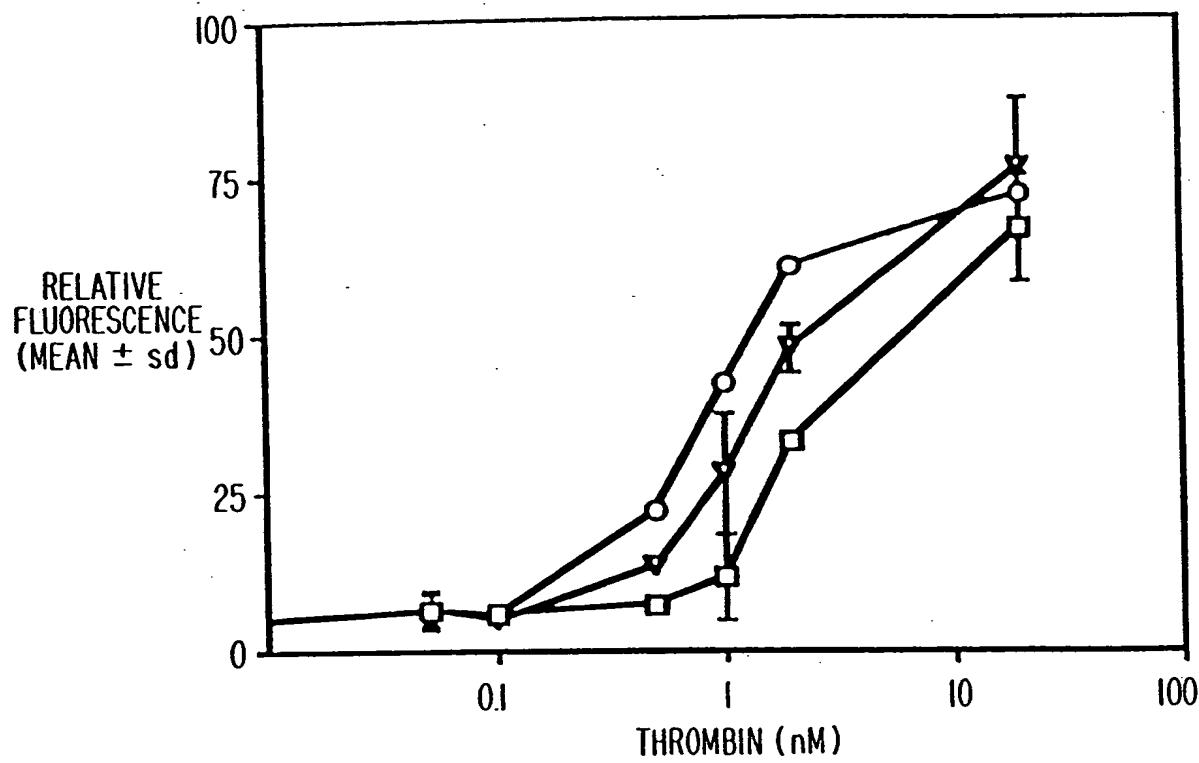


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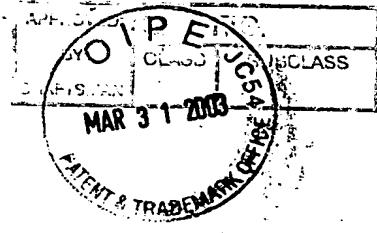


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FIG. 8



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